

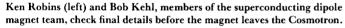
BROOKHAVEN BULLETIN

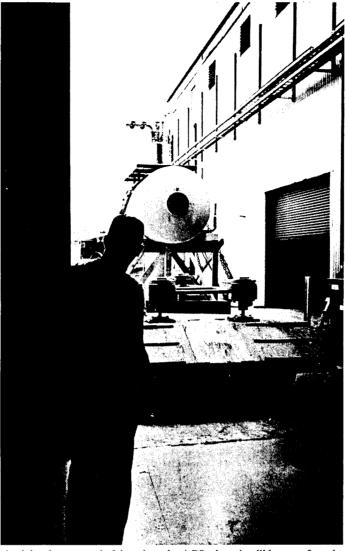
Published by the Brookhaven National Laboratory Public Relations Office



Volume 30 - Number 23 June 11, 1976







At right, the magnet is driven into the AGS where it will be one of a pair used initially in a beam known as A-3.

First Magnet Off The Line

The first of four planned superconducting dipole magnets was rolled out of the Cosmotron building last week and into the AGS where it will be used in the High Energy Unseparated Beam. The second magnet is expected to be completed in July and all four will be in place by November.

The magnets are being constructed by the ISABELLE Division for use by a sister division in the Accelerator Department the Experimental Planning and Support Division. Among the largest superconducting dipoles ever built, they are structurally similar to ISABELLE magnets, but dimensionally different. The warm aperture is 20 cm and the magnets are 2.5 meters long; compared to the 8 cm of ISA magnets.

The experience in making and using these magnets is useful to the ISABELLE Division in the design of this proposed accelerator. Further, there is the possibility that similar magnets would be used in the intersection regions where both beams would go through the same magnet.

Superconducting magnets can result in spectacular savings in power costs over conventional magnets, since the only power required for their operation goes into the refrigeration system used to provide the very low temperature environment.

The magnets operate at a very high current density, 25,000 Amps/cm² for such large magnets and produce a field of 4 Tesla, considerably higher than that possible with conventional magnets. Another unique factor is that these particular magnets can absorb their stored energy internally when making transitions to the normal state, without requiring an energy extraction system.

At the AGS, two of the magnets will be mounted on a rotating pad which will allow them to be used in more than one beam with considerable ease.

nesday, June 16.

Twenty-Two Years After Fallout

Medical findings over the past twentytwo years in the people of the Marshall Islands accidentally exposed to radioactive fallout, will be the subject of the 137th Brookhaven Lecture to be presented by Dr. Robert A. Conard, Medical Department, Wednesday, June 16, at 8 p.m. in Berkner

On March 1, 1954, when a thermonuclear device being tested at Bikini, detonated on about 17 megatons - a considerably larger yield than expected - an unpredicted shift in winds caused fallout to be deposited on the inhabited islands to the east, irradiating 243 Marshall Islanders, 28 American servicemen and 23 Japanese fishermen aboard their fishing vessel, the Lucky

Since his arrival at Brookhaven in 1956, Dr. Conard has been in charge of the annual medical surveys in the Marshall Islands, sponsored by Brookhaven and ERDA, and carried out in conjunction with Trust Territory medical personnel. His association with the area goes back even further, to 1944, when he was there on a navy ship and, later, when he participated in Operation Crossroads at Bikini.

The 86 people of Rongelap atoll, about 100 miles east of Bikini, received the greatest fallout exposure. They suffered acute effects from whole body gamma radiation which caused transient depression of blood elements, skin burns from deposit of fallout of skin and significant internal absorption of radionuclides from ingestion of contaminated food and water. The American servicemen on Rongerik received less exposure



Robert A. Conard

and the 157 people on Utirik atoll received

According to Dr. Conard, late effects from the ingestion of radionuclides at the time of the fallout were the most unexpected findings. Even though it was thought at the time that the thyroid dose was too low to result in thyroid effects, it was found that radioiodines in the fallout caused a higher dose to the thyroid gland than received by the rest of the body. About nine years after exposure, thyroid tumors in about one-third of the Rongelap population, along with associated retarded growth and development in some of the children, were observed. In the Rongelap people, 89% of the children exposed at less than 10 years of age developed thyroid abnormalities. The considerably greater number of tumors in the children is believed to be related to the smaller sizes of their thyroid glands, resulting in correspondingly greater doses. In the past few years, it appears that thyroid tumors are also increasing in the low-dose Utirik group, and recently, one child exposed in utero developed nodules of the thyroid.

Thyroid surgery has been performed in the United States on a total of 36 Marshallese, three of whom were not exposed to the fallout. Cancer of the gland was found in three exposed Rongelap and in three exposed Utirik people. Most of these patients had extensive examinations at the Medical Research Center at Brookhaven prior to surgery elsewhere.

In 1972 an unexposed Marshallese died of acute leukemia, possibly related to radiation exposure. Other effects of radiation have been less clear cut. According to Dr. Conard, cancer, other than thyroid, appears to be most frequent in the exposed Rongelap population, but the numbers are too small to permit any firm conclusions. A possible increase in the number of miscarriages during the first five years was noted in the Rongelap women. No genetic effects have been noted in children of exposed parents, and though numerous studies have been made for possible aging effects, none have been measured that could be related to radiation exposure.

Dr. Conard will also discuss the examinations and treatment of diseases not neces-

'76 Salary Increases

Dr. George Vineyard, Laboratory Director, has announced that the effective date for annual merit increases for all nonbargaining-unit employees will be made consistent with the beginning of the new fiscal year. Accordingly, merit increases for the 12 month period covered by the FY 1977 Personnel Review will be effective October 1, 1976 for all monthly salaried employees and October 4, 1976 for all non-bargaining unit weekly wage employees.

In addition, Dr. Vineyard announced that a general increase of 3 percent will be granted all nonbargaining-unit weekly wage employees effective July 5, 1976, and monthly salaried employees in salary levels N-I and E-I effective July 1, 1976. This adjustment is to compensate for the change in the effective date of annual merit increases from July and August to October for these employees.

Notice

The Richard Dyer-Bennet concert last Sunday was cancelled due to the illness of the artist. Disappointed concert-goers will be happy to know that the committee will make every effort to reschedule another performance.

June 30 and July 1 **Bloodmobile Days**

By now every employee will have received a pledge card and a letter from Laboratory Director George Vineyard explaining this year's blood program. The Bloodmobile of the Greater New York Blood Program visits the Laboratory on Thursday and Friday, June 30 and July 1.

If a sufficient number of Laboratory employees and their families donate blood, every employee and his or her family will be eligible to receive an unlimited amount of blood, in case of need, within one full year. You, your spouse, dependent children, parents, parent-in-law, brothers, sisters, nieces, nephews, grandparents, and grandparents-in-law are covered.

Return your completed pledge card to G.C. Kinne, Bldg. 460, no later than Wed-

Saturday Tours

The first summer tour got underway last Saturday when over 300 people visited the Laboratory. According to all reports, they were very pleased with the program offered. Remember the tours as a point of interest for your friends and relatives when they visit you this summer. The tours are scheduled each Saturday, from 10 a.m. to 4 p.m., as follows:

> 12, 19, 26 10, 17, 24, 31 July August 7, 14, 21, 28

sarily related to radiation effects such as diabetes which is prevalent in the Marshalls, and the personnel and environmental monitoring conducted by the survey teams. He will relate some of the problems that have arisen in connection with the surveys, such as interference by local Marshallese politicians, problems regarding the return of the Bikini people to their homes and transportation problems. The recent acquisition by ERDA of a survey ship, an LCU which can be beached, has made it easier to conduct the surveys.

Dr. Conard received his M.D. degree from the College of South Carolina in 1941. He spent 14 years in the United States Navy as a medical officer specializing in the field of nuclear medicine. He holds the rank of Rear Admiral in the Naval Reserve.

A buffet supper will be served in the Brookhaven Center before the lecture beginning at 6:30 p.m. Reservations should be made in advance by calling Ext. 3541 before 5 p.m. Refreshments will be available in the lobby of Berkner Hall immediately after the lecture.

BROOKHAVEN BULLETIN

Published Weekly for the Employees of

Brookhaven National Laboratory

BERNICE PETERSEN, Editor

Doug Humphrey, Photo-Journalist

CAROL PETRAITIS, Copy Preparation

40 Brookhaven Ave. Upton, N.Y. 11973

Telephone 516 345-2345

CARL R. THIEN, Public Relations Officer

The untimely passing of Allan Auskern

at age 46 on June 4 was indeed a shock to all who knew him at BNL. Allan was a

thoughtful, meticulous scientist in the true

sense of the word. He came to Brookhaven

about a dozen and a quarter years ago after

obtaining a master's degree in ceramics

from Penn State University and after per-

forming development work on uranium ox-

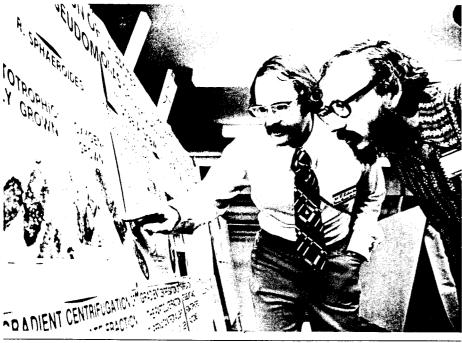
ide nuclear fuel elements at Bettis-Westing-

house in Pittsburgh. At Brookhaven he

worked on refractory carbide and nitride reactor elements in the Metallurgy Division of NED contributing much basic information in this field. Later he switched to the Radiation Division of DAS where he conducted fundamental studies on the development of concrete polymer materials. His work and publications are widely recognized and quoted in the concrete materials field. An interesting application of his work resulted in a patent concerned with producing artificial bones for body implantation. Recently he collaborated with the Materials Sciences Division of Stony Brook University. Allan boldly and steadfastly held to the principles he believed to be fundamental to the true understanding of the matter he was dealing with. He shall be remembered by the scientific commun-

In Memoriam

Joseph Warden, Rensselaer Polytechnic Institute, (above) checks out some of the 40 poster presentations on view during the evening session last Tuesday at the Biology Symposium, as do W.R. Richards, Simon Fraser University (left) and R. Cellarius, Evergreen State College, (below). About 150 biologists and biophysicists from all over the world attended the three-day meeting on chlorophyll-proteins, reaction centers and photosynthetic membranes.



Official & Special Events

Monday, June 14 Summer Student Program Begins **Executive Seminar Tour** Wednesday, June 16 BNL Lecture - Berkner Hall - 8 p.m. Thursday, June 17 Long Island Bone Metabolism Meeting

Sunday, June 20 Father's Day Monday, June 21 MAP3S Planning Meeting (21-23) Wednesday, June 23 Navy Meeting Thursday, June 24 Biology Visiting Committee (24-25)

Concert

Purchasing Manager Sought

It was announced recently that Bruce W. Quinn, Purchasing Manager, was on extended sick leave. In view of the state of his health he has notified the Laboratory that he will not be returning. He has served ably as Purchasing Manager since March 1964 and his services will be missed.

The Purchasing Division, during his tenure, faced many challenges relating to the Laboratory's growth and later retrenchment. Mr. Quinn coped with these challenges very effectively and he leaves a smoothly running organization.

To replace Mr. Quinn as Manager, Vincent R. O'Leary, Associate Director for Administration, has asked that all interested parties make application to him in writing no later than June 18, 1976.

Benefit Concert

wind chamber music concert at Bellport Middle School, Monday, June 21 at 8 p.m. Proceeds will benefit the Bellport Day Care Center, Inc. and the Bellport Area Community Action Committee.

The Boehm Quintette, formed in 1968, has performed at Carnegie Recital Hall, the Alice Tully Hall at Lincoln Center and the Library of Congress.

Tickets, available from S. Lacks, Ext. 3369, C. Stewart, Ext. 4154, or Sou'wester Bookshop in Bellport, are \$3.00 in advance,

New in Personnel

business administration from Alfred Uni-



versity in 1967. After graduation Burdick entered military service, where he became involved with compensation and benefits administration for military personnel. Since that time, he has been engaged in general administration and in the recruitment of technical and scientific personnel for a New York City firm.

Burdick is a native of western New York State, and after spending virtually all of his professional career in an urban environment, is "overjoyed" to be back in the country again. His interests include tennis, sailing and restoration of sports cars.

Arrivals & Departures

Arrivals

Michael F. Bonner	Applied Science
Chia-Hsiang Lai	Applied Science
William M. Morse	Physics
Andrew S. Noetzel	
Departures	
Dorothy D. Scott	Medical
Audrey Z. Vary	



The Boehm Quintette will perform a

\$3.50 at door. Information 286-9616.

John Burdick joined the Laboratory on June 1, as a Senior Personnel Representative in the Personnel Division. He received a baccalaureate degree in economics and



of Applied Science

Letters

To The Editor

ity at large and by his associates at BNL.

to his family, his wife Sylvia, and his chil-

Division and Department

dren, Joanne and Barry.

We all convey our deepest condolences

Members of the Process Technology

To the Editor:

Allan Auskern's death has taken from the Laboratory community not only a gifted and accomplished scientist but an outstanding sportsman as well. Many of us shared his enthusiasm for tennis but few were his equals at the game. Often a winner in our Laboratory tournaments and always close to the top, Allan was admired equally for his great competitive spirit, his scrupulous regard for fair play and his perfect courtesy. His work for many years on the Tennis Committee had contributed much to the smooth operation of this popular recreational facility.

On behalf of his many friends at Brookhaven, we would like to extend to his family our sympathy for their loss which is also in no small measure our own.

--- His Tennis-Playing Friends

To the Editor:

I would like to advise my friends and co-workers that my proposed solo sailing trip to Ireland was terminated in the vicinity of the Nantucket Shoals Light Tower - approximately 150 miles southwest of Montauk Point.

The boat developed a leak between the engine compartment and the main cabin. The engine compartment is open to the sea and has water in it on all points of sailing except downwind. The leak introduced approximately four quarts of water an hour into the boat. This doesn't seem like a great amount, but I did not want to start the crossing with this additional handicap.

I'd like to thank everyone concerned for their help and good wishes. I'll try again next year. My log and a tape is available to anyone interested.

-Frank Pechar

To the Editor:

I have been asked to report a change of address to the BNL Alumni Association and what better way than through the Bulletin. J. Georges Peter has moved from Beverly, Mass. to 12 Arlington Street, Gloucester, Mass. 01930.

Georges says he is in fairly good shape except for a slight cardiac disorder which put him in the hospital for a short stay. Things are better now and he would appreciate hearing from other alumni and undergrads.

-S.N. Earle

To the Editor:

Thank you sincerely for your thoughtful kindness at a time when it was deeply appreciated. -George Eleazer family



June 11, 1976 Brookhaven Bulletin

Faces, Places



Trudi Neuhoff is an Administrative Assistant to Bernard Manowitz, Associate Chairman for Environmental Programs. About this group Trudi says, "I work in a great atmosphere with progressive, innovative people." She started as a secretary in Photography in 1955 and moved to DAS eight years later. She haunts auctions and also refinishes furniture for her homes in South Haven and in New Hampshire. She maintains a vegetable and flower garden and fends off the woodchucks in New Hampshire and the rabbits in South Haven. Trudi paints in oil and acrylic and creates

Dégustation de Fromages

Or, in other words - a cheese tasting will be sponsored by the BNL French Group next Friday, June 18, at 8 p.m. in the Recreation Hall. Mme. Gaby Jacobus-Baudier will be our official guide through the mysteries of double-crème, triple-créme, and other masterpieces of the French cheesemaker's art. Among other helpful information, she will discuss the seasonal variations that affect certain cheeses, and the best procedures for ripening and storing cheese after purchase. Bread and wine will accompany the cheese tasting; coffee and pastries will be served later in the evening.

As imported Brie is now almost worth its weight in gold, non-members of Le Cercle Français du BNL will be asked for a contribution of \$3. To ensure that supplies of cheese and wine are adequate, please notify either Ralph Weston (345-4373) or Paulette Goodman (744-8449) before June 14, if you plan to attend this event.

Inside Info

Joseph Ash, Safety & Environmental Protection Division, and David Stampf, Applied Mathematics Department, were awarded M.S. degrees in Applied Mathematics from the State University of New York at Stony Brook at the May Commencement. Most of their graduate work was done through SUNY's extension program in applied mathematics at Brookhaven. SUNY has been conducting two graduate courses each semester at the Laboratory since September 1973.

Summer Concert

The Aeolian Chamber Players will present a program of trios for various combinations of instruments in the second concert of the summer series in Berkner Hall on Thursday, June 17, at 8:30 p.m.

Hailed as "the remarkable Aeolians" by The New York Times and "poetic virtuosos" by The New Yorker, the group was founded in 1961 by its director, Lewis Kaplan, who was convinced that a permanent ensemble should be formed to perform the rich but rarely heard chamber music repertoire for the mixed timbres of strings and winds. The excellence of the group has attracted such composers as Berio, Crumb, Rochberg, and Subotnick who have written works especially for them. The group has toured extensively both in this country and in Europe and can be heard on Columbia and CRI records.

The Oakland Tribune in reviewing a concert wrote, "The Aeolian Chamber Players, five young men who specialize in music for mixed ensembles, gave spectacular performances at Hertz Hall," (University of California, Berkeley). The New York Times reported, "The program was played in the most sympathetic and expert manner imaginable by the Aeolian Chamber Players.'

Members of the Aeolian Chamber Players are Lewis Kaplan, violin; Barbara Haffner, cello; Erich Graf, flute; Thomas Hill, clarinet and Jacob Maxin, piano. Thursday night's program includes the Madrigal Sonata for flute, violin, and piano by Bohuslav Martinu, the Trio in A Minor, Opus 114, for clarinet, cello, and piano by Johannes Brahms, and Beethoven's Trio in E Flat, Opus 70, No. 2, for violin, cello, and piano.

Tickets are \$4 for adults, \$2 for students

Cafeteria Menu Week Ending June 18, 1976

Monday, June 14		
Tomato Vegetable Soup		
Keilbasy & Sauerkraut	1.10	
Grilled Ham Steak & 1 veg.	1.25	
Tuesday, June 15		
Cream of Potato Soup		
Southern Fried Chicken & 1 veg.	1.10	
Macaroni & Cheese & 1 veg.	1.00	
Wednesday, June 16		
Beef Barley Soup		
Tuna Noodle Casserole	1.10	
Special		

Cup of Soup Tacos & Refried Beans Pie or Ice Cream Small Beverage \$1.68 plus tax

Thursday, June 17 Chicken Noodle Soup Chili Dogs & Rice

1.00 Salisbury Steak & 1 veg. 1.05 Friday, June 18 New England Clam Chowder Broiled Filet & 1 veg. Roast Sirloin of Beef & 1 veg. 1.15 1.30

Selected Reading

Nature 261, May 27, 1976 U.S. takes up the issues: The nuclear exporters meet again soon. C. Norman. 266-8

Sci. Amer. 234, June 1976 The choice of voting systems. R.G. Niemi and W.H. Riker. 21-7

In Appreciation



Awards were given recently by colleges represented in the Brookhaven Semester Program to three Brookhaven staff members for their dedicated service in instructing and advising the students who have participated in the program. Glenn Price (left), Co-Director of the Program, presented the awards to Kurt Fuchel, Applied Mathematics; Edwin Popenoe, Medical; and Sanford Lacks,

Scholarship Winner



This year an additional AUI Trustee scholarship has been awarded to Vernetta Eleazer, daughter of George Eleazer, Safety and Environmental Protection Division. She lives in Bellport and is a graduate of Bellport High School. She plans to attend Morgan State College.

Bicentennial Race Results

Overcast skies and a few drops of rain did not dampen the enthusiasm of either racers or spectators Sunday morning, June 6. A total of 22 entrants appeared. The wind was light, and the result was a fast pace. A group of about 10 quickly split off from the rest and held together for most of the course, breaking apart only in the home stretch. The result was a new course record of 46:02 for the slightly longer 17.76 mile course; this is an average speed of 23.2

One minor tragedy occurred: Damian Emery, a junior, kept up with the leading pack for about half the race, but had a flat and was unable to finish. David Smith was also in the leading pack when his chain jammed. He accomplished the astonishing feat of stopping for repairs and then catching up to the leading pack to tie for third place. Exceptional gallantry was displayed by John Cherniavsky who was leading his wife Ellen by a bike length coming up to the finish line, then braked to let her cross first. Rumor has it that he was threatened with going without dinner if he beat her.

Thanks are due the Lab police, who tended the north gate, routed traffic around the race course, and supervised parking. The BNL Radio Club deserves thanks for their help with communications and race course sign emplacement. Special thanks are due Hermann Geist for supervising registration and timing.

The race times are as follows:

Senior Men Phil Watson 46:02 2 Iean Bussiere 46:10 Fred Usack 46:16 David Smith 46:16 Ray Brown 46:23 Richard Kieburtz 46:24 John Jensen 47:55 Robert Harold 50:48 Leslie Lasker 50:50 10 Bill Piel 54:49 11 John Cherniavsky 61:04 Veteran Men (Over 40) Gerry Morgan 46:17 Alan Carroll Junior Men (Under 16) Fred Blume 46:08 Laurence Emery 59:05 James Watson 61:05 John Smith 71:49 Damian Emery 78:08 Warren Smith 78:08 Senior Women Ellen Cherniavsky 61:03 Patricia Scott 73:08 Rebecca Hayes 73:08

Tennis News

BNL won its second round match in the Long Island Industrial League defeating Powers Chemical by the score of 55-16. Three doubles teams compete in each round, each team playing 3 sets with one point awarded for each game won.

Results of the individual matches were as

Rosenberg, Koetzle won 6-0, 6-4, 6-2

Auskern, Kevey won 6-0, 6-2, 6-2 Passell, Takagi won 7-5, 6-1, 6-0

Soccer

John Skalyo

BNL 2 — Patchogue 4

The BNL Soccer Club lost to Patchogue 4-2 at the Oregon School grounds in Medford on Sunday, June 6. Although rain was not a factor during the game, a downpour earlier left the field soaked and difficult to play on.

BNL scored early with Fisher finding the net from close range on a cross from the right wing by Veraruiz. The wet field then went against BNL as three BNL mistakes due to the slippery ball resulted in goals for Patchogue 3-1. Patchogue finished their scoring at 34 minutes of the first half of a good cross in front of the goal that was pushed in by the winger, 4-1. BNL came back at 42 minutes with a header by Fisher taken in front of the goalie on a cross from the left side, 4-2.

Neither side scored in the second half giving Patchogue a victory that was deserved as they played well on the wet field and showed better control of the ball.

BNL will host the New York Oldtimers on June 19 at 2:30 at the BNL Recreation Park.

The Brookhaven Town League will start shortly after July 4 and schedules will be given when received.

The team plays pickup games on Monday evenings starting at 5:30 and welcomes new players. Anyone interested should contact Ralph Fairchild, Ext. 3649.

Softball News

Ed Taylor

Leagues I & IV

Games postponed due to inclement weather. They will be made up as doubleheaders the next time the teams are sched-

League II

Bubble Boys 7 (1-1) — Six Pax 4 (1-1)

The Bubble Boys put it all together as they got some good clutch pitching from Jack Sondericker and combined it with good fielding and good hitting to defeat a good Six Pax team.

Dirty Sox 10 (1-1) — Metallurgy 4 (1-1)

The Dirty Sox were led by Bob Horton's 2-run triple and their brand new "T" shirts as they evened their won-lost record.

League III

Circuits 6 (2-0) — Phoubars 1 (1-1)

The revamped Circuits kept their slate clean (2-0) as they finally came alive late in the game to score six runs for the win. Muscular George Hughes led the Circuit attack with a booming double that many observers say would have been a routine homerun for George in his earlier years. John Schmidt (no relation of Mike Schmidt of the Phillies) pitched his usual steady game for the Circuits.

Sweathogs 5 (1-1) — Medical 0 (0-2)

The Sweathogs played a sound game defensively as they recorded the first shutout of the young season.

League V

Oh Kays 6 (3-0) — Diamonds 5 (2-1)

The Oh Kays remained undefeated as they eked out a one run victory over stubborn Diamond club. Jackie Larrie and Rosemary Mack combined to help produce three runs in a weak hitting game.

The Odd 15-25 (1-1) — T.N.T. 7 (0-3)

The Odd 15 team hit and fielded well as they overpowered the T.N.T. team. It had to be the longest game of the season. The final out was made at 7:45.

Balls & Strikes 8 (1-1) — Turkeys 5 (1-2)

Gail Waite made some good plays in right field for the Turkeys but it was not enough to keep her team from losing the

Attention BNL Golfers

Our first 18-hole tournament of the year will be held next Tuesday, June 15, at Pine Hill Country Club. Tee off times will start at 12:30 so put your own foursome together or give V. Racaniello, Ext. 4592, a call and he will set you up. Greens' fee \$7, entry fee \$1. Prizes for low gross, low net, longest drive and closest to the pin. Rain date the

Hope to see you there.

Classified Advertisements

Placement Notices

Each week the Personnel Office lists personnel placement requisitions, currently being processed. The purpose of these listings is, first, to give notice of all non-scientific staff positions being filled and, second, to give employees an opportunity to request consideration for themselves through the Personnel Office. In filling vacancies, the Laboratory's objective is to give first consideration to present employees, as follows: employees within the immediate group having the vacancy, employees within the department or division, employees within the Laboratory as a

For further information regarding a placement notice, or to request consideration for an available position, contact Supervisor, Personnel Placement & Development, extension 2874 or 2882.

123. COMPUTER OPERATORS - Temporary positions. Shift work. Applied Mathematics Department.

124. SECRETARY - AAS degree or equivalent in secretarial science and experience in technical typing and general office procedures. Biology Department.

125. SCIENCE ASSOCIATE - MS or equivalent in pathogenic microbiology-virology with experience in tissue culture techniques, virus concentration, assay and identification. Assignment involves extensive field sampling. Department of Applied Science.

126. FIRE CAPTAIN - Responsible for all aspects of first-line supervision of the Laboratory's firefighting group. Directs, schedules and coordinates all normal fire protection activities and assumes full control of firefighting and other activities in the event of fire or other emergencies. Safety & Environmental Protection Division

127. HEALTH PHYSICS ASSOCIATE - Minimum BS/MS or equivalent in Health Physics and applied experience and interest in environmental aspects of radiation protection, Safety & Environmental Protection Division.

128. SECRETARY - Temporary position. Purchasing Division.

129. TECHNICAL EDITOR - Seeking BS or equivalent in science and experience in editing technical journals and administrative reports for content, grammatical construction and accuracy. Technical Information Division.

130. SECRETARIES - AAS degree or equivalent in secretarial science and experience in technical typing and general office procedures. Department of Applied Science and Accelerator Department.

Autos & Auto Supplies

\$40. Steve, Ext. 4308.

AUDI FOX - 4 dr, automatic, am/fm, very low mi, best offer. Ext. 3369, 728-2308 eves.

75 FORD XLT - Ranger truck, supercab, \$4700; 73 Monaco, 5th wheel trailer, 26', \$3800. Both loaded & excel cond. 941-4227 after 6.

2 SNOW TIRES - W/rims, GM, wide tread, G7014-30. 924-4962.

TIRES - Recaps & used, most sizes, extra rims available. Ken, 289-8212 eves.

2 MICKEY THOMPSON - G60-14, tires, Indy profile.

67 IMPALA - 2 dr hdtp, auto trans, 8 cyl, good transportation. \$325. Ext. 4047/4090.

68 CHEVY - 4 dr hdtp, ps/pb/ac, am/fm stereo. \$300.

Wells, 878-4212 eves. 69 FIREBIRD - 350 eng, ac/ps/pb, racing mirrors, vinyl

roof, low mi, excel cond. 589-1069 after 6.

74 JAWA - 90 cc, road & trail, 3000 mi, clean. \$200. J. Guthy, Ext. 2902, 929-8287

70 YAMAHA - 250 cc, good cond, red street motorcycle, moved to larger machine, must sell. Glenn, 281-7873.

66 PONTIAC GTO - Green w/black vinyl top, pb, power windows, radio, good tires, excel cond. Lou,

70 DODGE DART SWINGER - Auto, 6 cyl, 2 dr, snow tires, 82,000 mi, avail 6/11. \$950. Masashi, Ext. 3785/3077 after 5.

4 BEACH RIMS - 8" 6-lug Chevy. \$60. Harry, 475-

SPARE TIRE CARRIER - Front bumper mount for light duty Chevy or GMC trucks, pickups, blazers, etc. \$20. Наггу, 475-6708.

69 BUICK Le Sabre, 4 dr hdtp, ac/ps/pb, auto, white, excel cond. \$700. Ext. 4010, 928-2257.

69 VW BUG - Excel cond, 10,000 mi on rebuilt eng, no rust, 1 owner, garaged, 1 yr on tires & battery.

73 CHEVROLET PICKUP - 3/4 ton, low mi, excel, \$3200; Cree Travel Trailer, sleeps 5, stove w/oven, gas refrig, self-cont, \$1250. Ext. 3146, 325-1961.

66 AUSTIN HEALY SPRITE - Roll bar, racing green, good rubber. Joe Pepe, Ext. 2491.

71 GREMLIN - 6 cyl, excel running cond, avail end of June, make offer. M. Arik, Ext. 3835/3034 after 6.

FORD GENERATOR - Very good cond. \$5. M. Tesla,

74 FORD PICKUP - F100, 8' bed, V8 engine, 3 spd, 40,000 mi, \$2500. 399-1922 after 6.

66 OPEL CADET II - Runs well, body needs minor repairs. \$135 or make offer. Joe Bush, Ext. 4543, 1-4. 75 ASTRE PONTIAC - Hatch back, auto trans, 8000 mi, 473-1967

14" WHEELS - Chevy & Pontiac, \$5/pr; 12 V generator, GM type, \$7; 2 bbl carb for Rambler, \$7.50. Bob. Ext. 4652, 289-0357.

68 MERC MONTEGO - 302 eng, 83,000 mi, runs well. \$450. Don, 929-6646. 66 DATSUN PICKUP - High mi, runs well. \$450. 588-

2 SNOW TIRES - D78-14, w/rims, will fit Dodge Dart & similar wheels. \$20. John, Ext. 2242/3306

74½ RENAULT - R17 Gordini convertible, 5 spd, bosch Fi, am/fm, 34 mpg, better than new, save \$2500. 821-0303.

69 VW - Blue, clean car, new tires, \$800 firm. 475-7539 after 6.

2 GM TIRES - 71 Buick w/tires; 1 J-15 tire 5.20-12 tires on 4-hole rim. \$5 each. Ext. 3848.

TRUCK CAP - 8', \$50; 780 Holley carb, \$40; 2 spacers, \$10; 2 Z-28 rims, 15", \$30 each. 475-3415.

2 CHROME RIMS - 15" chrome reverse; bumper & tripod jacks, \$6 each, misc, VW parts. Frank, Ext. 2022.

70 BUICK ELECTRA - Convertible, new exhaust system, ac, steel radials, excel cond, full power. \$1650. Ext.

71 GREMLIN - Ps/pb/ac. Ext. 3688, 363-7032.

66 CHECKER MARATHON - New tires. Ext. 3688, 363-7032.

Boats & Marine Supplies

FLYING DUTCHMAN - Beautiful, ready to sail, reasonable. Elliot. 363-6596.

SUNFISH - Fiberglass. \$400. Ext. 3765, 744-5079. PORTO POTTY - Self-contained toilet, portable. \$50. Mike, 345-2350.

OUTBOARD ENGINE - 72 Chrysler, 6 hp, tank and hose, excel cond. \$150. 286-3698.

72 PEARSON 26 - Main, jib, #2 jib, #1 Genoa, maxi-star spinnaker, 9½ hp Evinrude, cradle, extras, excel cond. Terry, 473-8426.

20 HP EVINRUDE - 1967, new gas tank, clean, excel running cond. \$200. Russ, 878-4184.

18' COBIA BOAT - 1967 fiberglass, 120 hp Merc in/ outboard, anchor, lights, cushions, trailer, 30 mph +, good cond. \$1500. Don, 286-0151.

71 STARCRAFT - 14' aluminum, 33 hp Johnson, trailer, canvas. \$975. Joel, 286-8633.

34' BALTZER - Good family or fishing boat. Ready to go. 331-1718.

PENGUIN - 12' w/trailer, completely fitted, newly fastened and painted, ready to go. \$500. Ext. 4156.

Miscellaneous

DEVELOPING TANK - Stainless steel, 35 mm, single reel, perfect cond. \$10. 928-2437 eves.

SEALY POSTUREPEDIC - Full size, excel cond, \$75; cable springs, \$25; frame, \$25. 928-2437 eves.

CLASSICAL GUITAR - DiGiorgio w/hard case. \$125/ best offer. 928-2437 eves.

WING GULL BOW - 30 lb pull w/set matched 26" arrows, excel for beginners, youths. \$35. 928-2437

TELEPHOTO LENS - Nikon 135 mm w/F2.8, excel cond. \$95. 928-2437 eves.

OPAQUE PROJECTOR - Nova 700, Buhl, used twice.

\$100. Ext. 3507.

REEL LAWN MOWER - \$5. Mike, Ext. 4851.

JET WATER PUMP - Sears ¾ hp, 115 V/220 V. \$20.

TENT CAMPER - 75 Cox Cadet pop up, used 2 weeks, sleeps 5, stove and sink. \$1000. Kathy, 666-7238.

FURNITURE - Sofa, love seat, dining table, 4 chairs, bedrm set, white, modern, 5-piece, queen mattress, box spring, etc. must sell, leaving country. Ext. 4010, 928-2257.

RACING DIRT BIKE - Dultaco, 225 cc, class mx, winner eastern LI, new gear box front fork seals, rings. \$450.698-9733.

WOMAN'S BIKE - Sears 26" 3 spd, brown, hand brakes, less than 1 yr old. \$60. 475-0364.

72 HONDA 70 - Road and trail bike, low mi, good cond. Ext. 4132, 924-4328.

2 SEWING MACHINES - Straight stitch, \$25 and \$35 w/cabinet; wing chair; linens; broiler; curtains; more.

MAPLE BED BOARD - \$10; walnut end table, \$15; metal kitchen cabinet, \$25; photo flood lights w/ bracket, \$10; lamp; TV. 924-4962.

2 AIR CONDITIONERS - 12,000 btu, Chrysler, \$100; 6500 btu, Philco, \$80. Ext. 3762.

SMALL PRINTING PRESS - 928-9274.

DINING RM SET - Contemporary, walnut, table, leaf, pads, 6 chairs, breakfront, beautiful cond. \$475. Dillon,473-0871.

MADRAS JACKET - Light weight, size 38, never worn. \$15. 286-3742 eves.

WASHER/DRYER - Combined unit, GE, good cond, 220 V. \$150. Ext. 4108.

CRIB - Playpen, good cond. Ext. 3765, 744-5079.

CLOTHES DRYER - In working order. \$15. Ext. 3765, 744-5079. TRAVEL TRAILER - 191/2', sleeps 6, tandum wheels,

self-cont, bathrm, refrig, 4 burner stove, heater. Reduced \$3300. Ext. 2978, 269-2526 eves. SOFA & LOVE SEAT - Modern, good cond, \$150; kit-

chen set w/4 chairs, white wrought iron, \$50.924-

OIL BURNER PARTS - New & rebuilt, controls, large asst new nozzles, plumbing fittings, new, reasonable. Medeck, 363-7324.

JUST ONE LEFT - Siamese kitten, female seal point. \$15. Carroll. 744-5093.

23" B&W TV - Magnavox, floor model, works. \$10. Guthy, 929-8287.

FREEZER - United, 19 cu ft, upright. \$200. Winter, Ext. 3354, 924-4208.

OVEN - Caloric gas wall, old, but works, free. 744-1112 after 7.

TENT TRAILER - Nimrod, sleeps 4 comfortably, some defective zippers, otherwise, good cond. Asking \$225. Ext. 4492, 286-0384.

HALL RUNNER - Colonial, variegated colors, 17'7", good cond, \$10. Ann, Ext. 3143.

HIDE-A-BED - Simmons, double, colonial style, tweed upholstery, \$95, Ext. 2269.

YORKSHIRE TERRIER - Healthy, excel temperament, shots, vets cert. Ext. 2902, 475-2627 eves.

IBM ELEC TYPEWRITER - Model 3C, full size, excel cond. \$325. 473-7379.

GIRL'S BICYCLE - Good cond, banana seat, med size. \$23, 928-0348.

INFANT SWING - Wind up w/music box. \$10. Ext.

DOUBLE BED SPREAD - Black & white, \$10. Ext. 3338. WING BACK SOFA - Early American, 84" long sturdy frame, needs reupholstering. \$40. Dick, Ext. 3910,

MEN'S BICYCLE - Raleigh grand prix, 10 spd. \$125.

POCKET WATCH - Antique silver English, 110 yrs old, Fusee chain wind mechanism, excel working cond. Peter, Ext. 4094.

Ads left out of this issue because of lack of space need not be re-submitted in order to run in next week's issue

Real Estate

Real Estate advertised for sale or rent is available without regard for the race, color, creed or national origin of the applicant.

For Sale

160 SURVEYED ACRES - Cooperstown vicinity, many buildings, sell all or part. Ext. 3688, 363-7032

BELLPORT - Raised ranch, 5 bearm, 1% baths, 100x 165 lot w/large garden, 8 yrs old. Osgood, Ext. 3978,

WADING RIVER - Near Sound, fully deeded beach rights, 6 rm ranch, 2 bedrms, bath, oil hot water heat, fireplace, full basement, rear patio. Taxes, \$988/yr. Asking \$44,000. 929-6465.

PATCHOGUE VILLAGE - 3 bedrm ranch, expansion attic, finished basement, most appl, country kitchen, attached garage, exterior maintenance free. \$34,000. Ext. 2290, 475-7694.

MT SINAI - Immaculate, 3 bedrm ranch, eat-inkitchen, dining, w/w carpet, washer & dryer, landscaped/treed, ¼ acre, \$36,000. Ext. 3431. 1 ACRE POCONOS - Water, elec, horseback riding,

skiing, swimming, tennis, priv community, gate guard. Ext. 3870, 732-3003. CORAM - Renovated summer cottage, 2 bedrms, eatin-kitchen, living rm, fireplace, enclosed porch, ½

acre, taxes \$320. \$29,600. 732-8494. SHIRLEY - Ranch, 2 lg bedrms, lg living rm, fireplace, w/w carpet, country kitchen, 75x120, \$27,990 negotiable. Dick, 281-0560.

CORAM ESTATE - Mother/daughter, hi ranch, 4 bedrms, 22x24 den, 3 full baths, 3/3 acre. \$39,500. Ext. 2467, 744-0038.

SETAUKET - Spacious 4 bedrm, 2 bath ranch, family rm w/full wall fireplace, skylights, eat-in-kitchen w/ self-cleaning oven, full basement, 2 car garage, patio, heavily wooded. 751-7416.

For Rent

2351.

SELDEN - Summer rental, 3 bedrm, end June - end Aug, flexible. 732-6231.

E PATCHOGUE - 2 bedrm house, furn, \$200/mo incl util, avail July & Aug, adults pref, 1 small child. 286-

PATCHOGUE - Furn house for summer rental starting June 27, Ext. 4339, 475-4005.

FURN RM - Patchogue Village, suitable congenial mature woman. 475-2627 after 6.

SHIRLEY - 2 bedrm house, secluded, 1/2 block from public beach, occupancy from about mid-July. 281-1546.

SHOREHAM - June-Labor Day, large hi ranch, priv beach, see to appreciate. 744-2514.

ROCKY POINT - 1 bedrm house, walk to beach, couple preferred, no pets, full year rental. 744-9724.

WADING RIVER - 3 bedrm house, basement & garage, near beach, 15 min to Lab. \$280/mo. Bak,

2 BEDRM APT - 5 min south of Lab. \$270/mo, all util incl. 924-3303.

Wanted

REEL LAWN MOWER - Manual, good cond. Ext.

BABYSITTER - Reliable, at my home 8-5:30 for infant. R. Cohen, Ext. 3480, 473-8717 after 6.

HOMES - For assorted kittens, wormed & innoculated. 473-6934. 275 GALLON OIL TANK - H. Henck, Ext. 3499, 281-

5626. HOMES FOR KITTENS - 3 pure white, not albinos, 1 white w/black spot, 1 black & white, 1 grey & black

TRANSFORMERS - 220 to 110, Ext. 4122, 286-8512. USED DRESSERS - Any style. 281-0268.

striped, just weaned. 929-4522.

HOME - For small young male golden retriever, mix, excel disposition, good w/children. Holtzman, Ext. 3600/289-8182.

2 PERSONS - Male or female to share house in Brookhaven preferably July. John, Ext. 3853.

YOU - To attend "Replika" at Slavic Cultural Center. 709 Main St. Port Jefferson. June 9-13. Reservations 473-9002.

WOOD CHIPS - One truckload delivered to Miller Place, reasonable. Bob, Ext. 4597.

Car Pools

E. PATCHOGUE - To start car pool or join existing one. Allan, Ext. 3369, 286-0259.

BAYSHORE - Summer student wishes to join car pool. Diane Scher, 665-6101 after 5.

BOHEMIA - Oakdale, Sayville area, need driver for existing car pool. Frank, Ext. 2311.

EAST SETAUKET - New employee desires to join car pool, on Rt 25A, share driving if necessary. Paul Falkowski, 751-5593 eves.

LOST - Slide tray, carousel projector & very impor-

tant slides. Please return slides, they are irreplacable. Send through inner office mail, desperate, no ques-

Lost & Found

Fran, 924-4514.

Services ESTATE SALE - Contents of house, everything must go. Sat, June 12, 10 am, 236 Jennings Ave, Patchogue,

off Roe Blvd. LAWN MOWER REPAIR - 878-0674.

tions asked. M. Goldstein, Bldg. 475.

PAINTING - Interior & exterior, low prices. Steve, 924-8011.

ROTOTILLING - Reasonable, manure. Ken, 289-8212 eves. TREE REMOVAL - Chain saw work, expd, free esti-

mates. Ken, 289-8212 eves. GARAGE SALE - Sat & Sun, June 12-13, 33 Nottingham Dr in Hermitage Development, Middle Island.

PAINTING - Interior & exterior, 5 yrs exp, references avail. 751-6431.

VW MECHANIC - Guaranteed work at reasonable rates. Pete, 281-0268.

AUTO REPAIRS - Tune-ups, brakes, all repairs at good rates. Ray, 878-2486. CROCHET - Shawls, scarves, vests, capes. Rachel, 878-

HEMS - Reasonable rates. Sharon Hoeffner, 878-

2591 after 6:30 & weekends, 10-6. TIRES - Steel radials. 281-5563.

YARD SALE - Antiques, clothes, boat, housewares, high chair. June 11-12-13, 4 Atlantic St, Brookhaven, off Carman. 286-8633.

TREE SERVICE - Removal, topping, pruning, chain saw work, estimates, cord wood. 727-1329. YARD SALE - Sat & Sun, June 12-13, N. Halsey Manor

Rd, Manorville, 1 mi off Exit 70. BODY WORK - Auto repairs & painting, free esti-

mates. Bob, 698-7647. ANTIQUE CARS - For hire for weddings, special occasions. Mike, 281-3460.

5. Ads not carried because of space restrictions will be

6. Ads are run only once and must be resubmitted if they

Classified Ad Policy

Deadline is 12 noon Monday for publication Friday of the same week.

are to be repeated.

held for publication in the next issue

1. The Brookhaven Bulletin's classified section may be used only by active and retired Laboratory employees 2. All items for sale or rent must be the advertiser's

3. Ads for material acquired for resale in association with

For Sale: Auto & Auto Supplies For Sale: Boats & Marine Supplies

For Sale: Miscellaneous

a full or part-time business cannot be accepted 4. Firearms offered for sale or trade may not be brought

7. Ads should be restricted to 20 words or less and typed or printed on the form provided, and must bear the employees signature.

Check x the heading applying to your ad. Print or type your ad in 20 words or less.

Lost & Found Services Ads concerning property for sale or rent cannot be accepted on this form. Special Real Estate Ad forms are available at the Office of the Brookhaven Bulletin, Room 111, 40 Brookhaven Avenue.

Wanted

Carpools

Employee's Signature. Send to: Brookhaven Bulletin, Building 460, 40 Brookhaven Avenue (Ext. 2345). Life No.

(Name & Phone No. To Call) Ext.